NMCI and the U.S. Marine Corps

Mrs. Debra Filippi,
Headquarters U.S. Marine Corps
Deputy Director C4 / Deputy CIO
NMCI Industry Symposium, 16-19 Jun 03

Purpose

- Explain NMCI status & impact on the Marine Corps
- Discuss opportunities to leverage/exploit NMCI

Background

- An enterprise approach to managing IT assets and networks in the Marine Corps had been adopted prior to the inception of NMCI
  - Marine Corps Enterprise Network
  - Marine Corps Office of the CIO established
- NMCI as opportunity to continue to mature Service and Dept IT governance framework

Marine Corps Goals

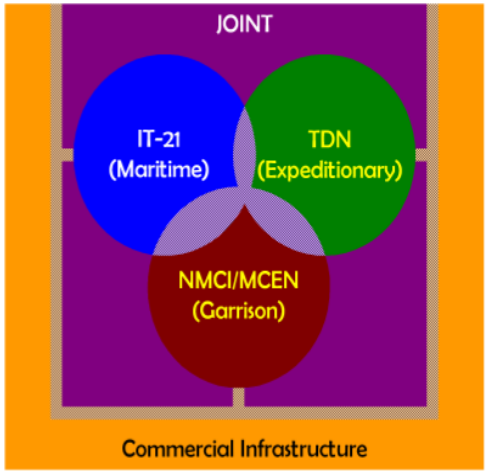
- Seamless, transparent exchange of information
- Increase awareness and quality of data assets
- Ubiquitous network access through the web
- Migration to common platform for providing enterprise services
- Streamline IT management

USMC IT Environment

IT Concept

The USMC enterprise consists of a globally interconnected, end-to-end set of information capabilities, associated processes, and personnel for collecting, processing, storing, disseminating and managing information on demand to warfighters and the supporting establishment.

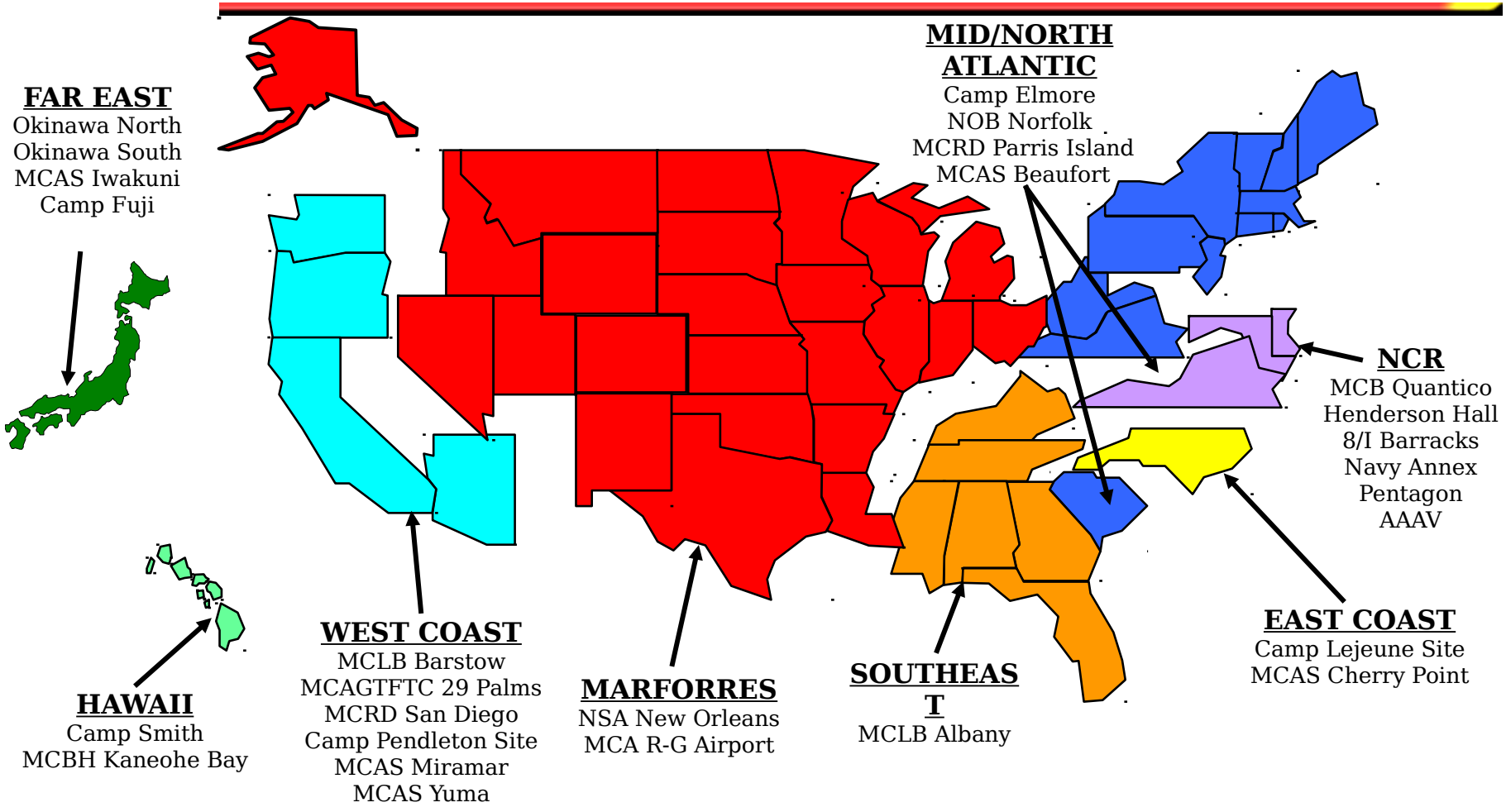
The USMC IT framework consists of three interconnected environments (units) within a Joint and commercial information technology grid.



IT Environment

Source: MITRE Corp "Building a Common Information Technology Infrastructure" brief

Transition Plan



TOTAL MAJOR SITES – 27

NMCI Current Status

- **First USMC seats AOR'd 24 March**
  - **15 Marine Corps sites AOR'd as of 3 June**
    - **16,300 seats**
  - **AORs will continue through FY03 and into FY04**
    - **Units deployed in support of OIF won't AOR until they return**

- **First cutovers anticipated by the end of Sep '03**
  - **Dependant on IOC of USMC Interim NOC at Quantico**

- **Issues**
  - **Quantico NOC**
  - **Legacy Applications**

Leveraging NMCI

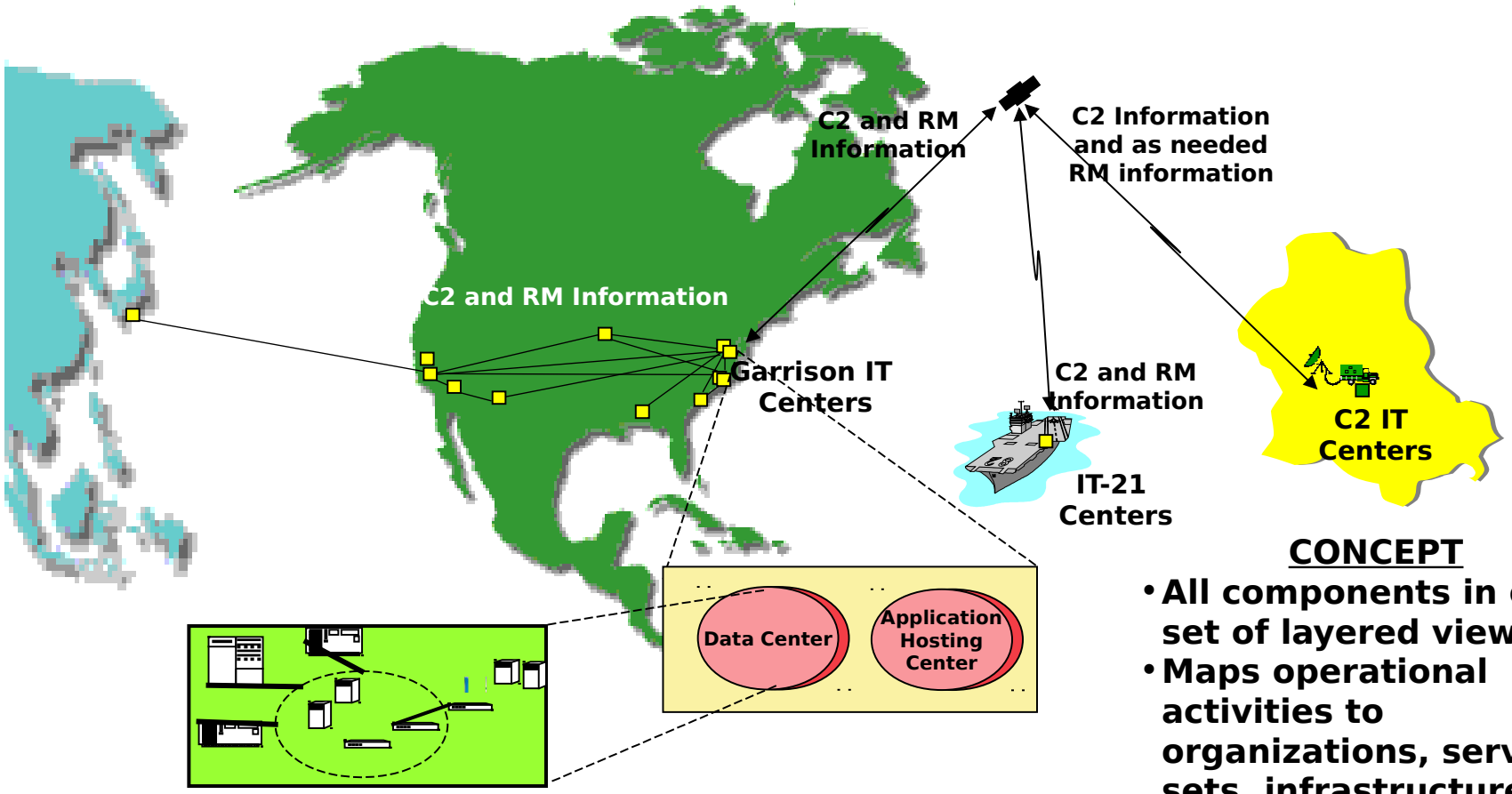
- Common IT Services
- Shared Data Environment
- Legacy Applications
- Enterprise Portal Framework

USMC Common IT Services

- **Objective:** Design and implement an agile, responsive set of common IT services within enterprise governance structure and supported by policy.

- **Enable:**
  - Effective management of infrastructure (centralized view of the Enterprise)
    - IT & Data/App/Web Hosting centers
  - Robust, secure IT services
  - Rapid deployment of portal and other information presentation mechanisms while maintaining data/information ownership.

To-Be Architecture Common IT Infrastructure



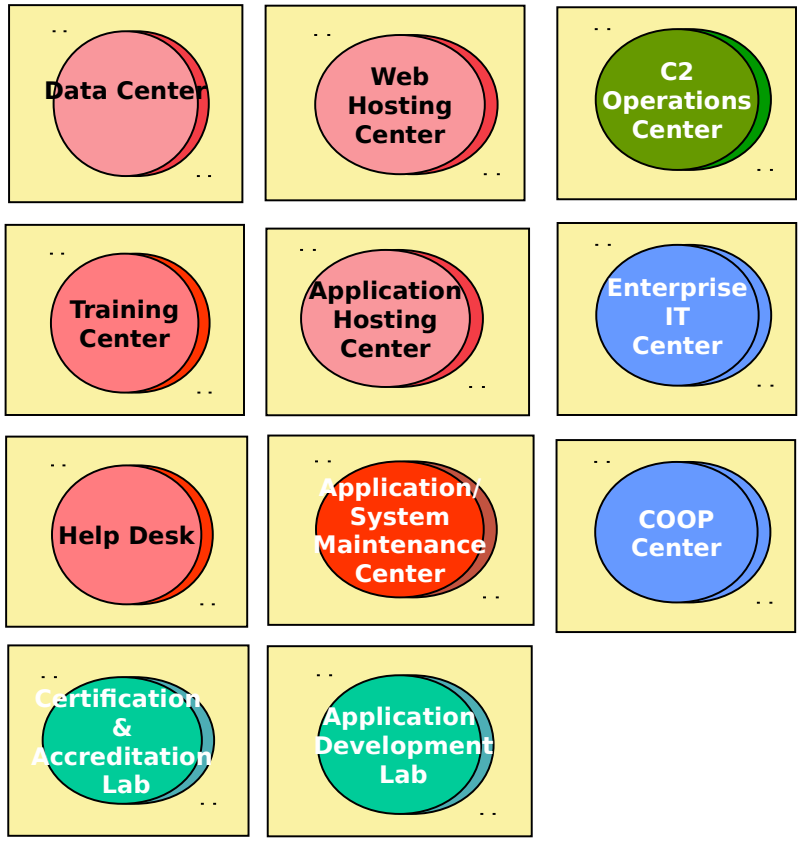
CONCEPT

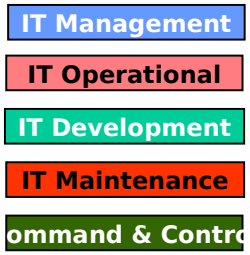
- All components in one set of layered views.
- Maps operational activities to organizations, service sets, infrastructure components and standards.
- Depicts the "seams" of system interoperability.

Representation spans C2, Garrison, afloat and Joint IT requirements

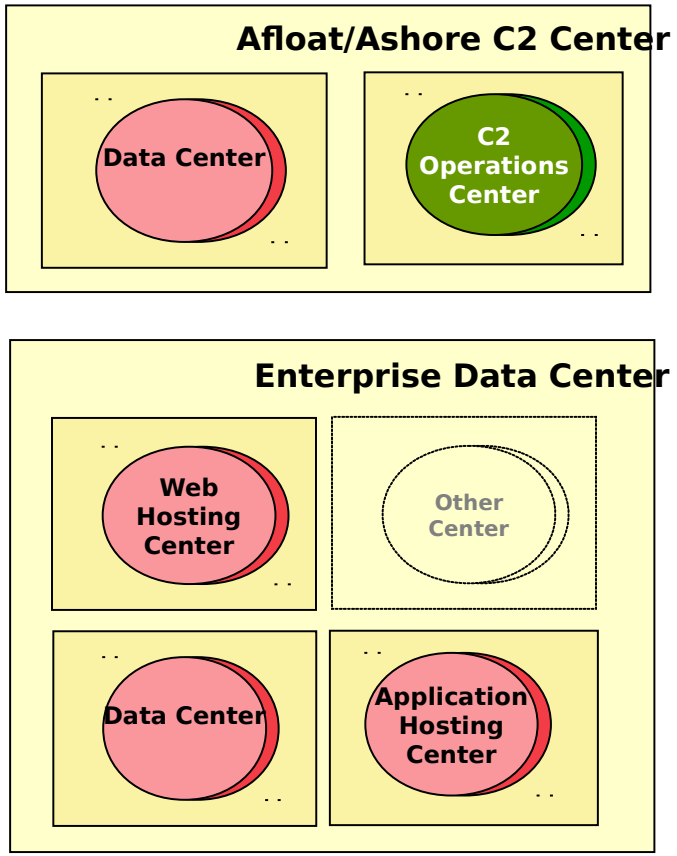
IT Centers Centrally Manage And Deliver Common Or Core IT Capabilities

Building Blocks

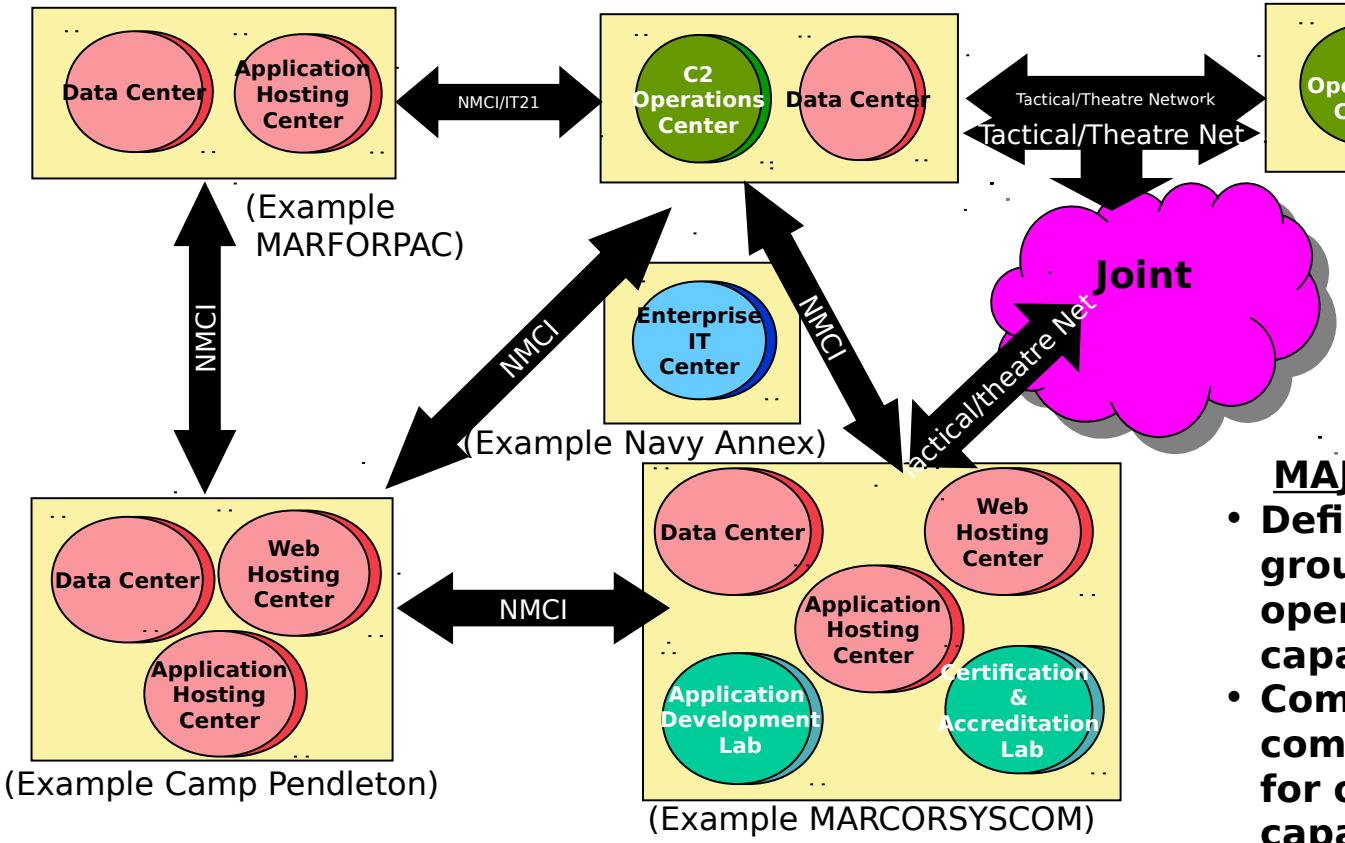




Examples



To-Be Architecture Common IT Infrastructure



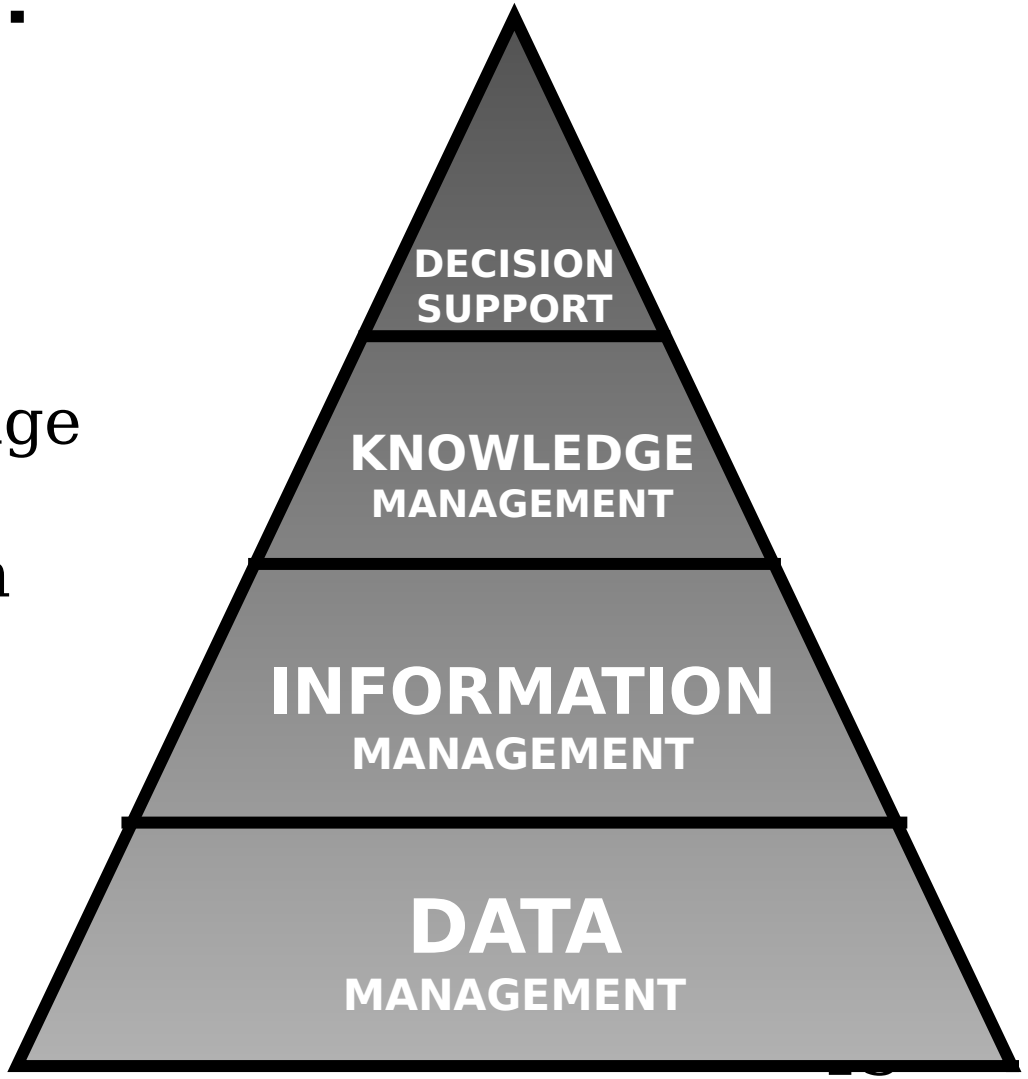
MAJOR COMPONENTS

- **Definition of IT Service groupings encapsulates operational capabilities.**
- **Common Infrastructure components required for operational capabilities can be delineated.**

Gives a layered view of the operational, system, and technical architecture components, and a clearer understanding of infrastructure requirements

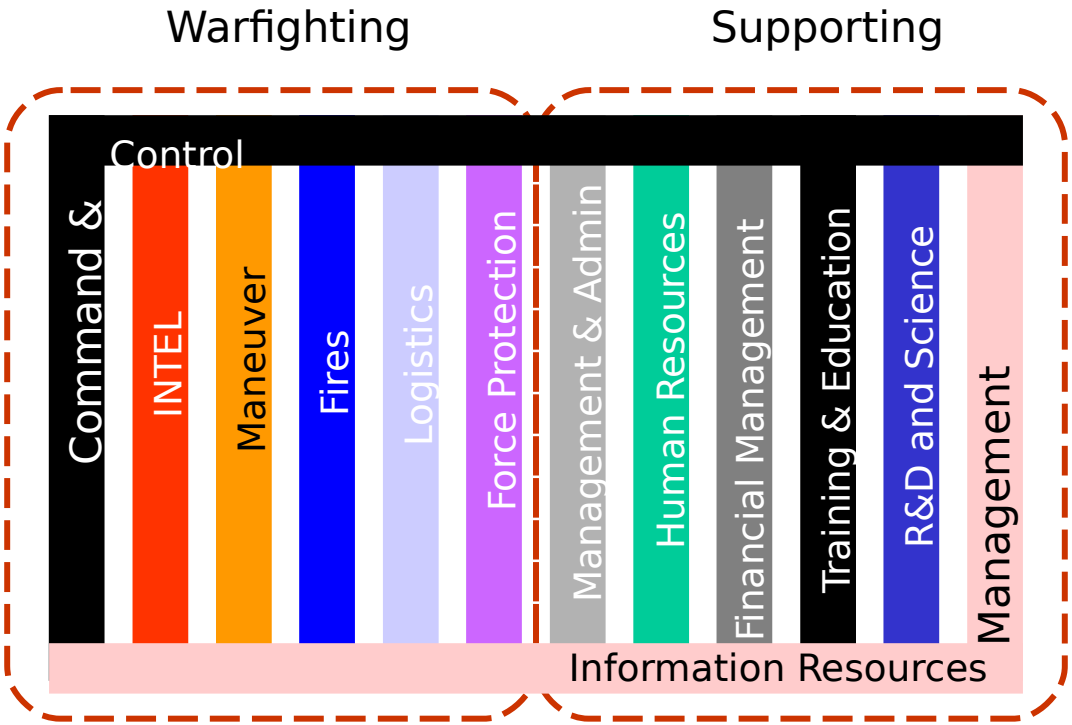
Enterprise Shared Data Environment (ESDE)

Data is a fundamental building block of interoperability, information management, knowledge management, and the design of efficient, non duplicative systems



The ESDE Defined

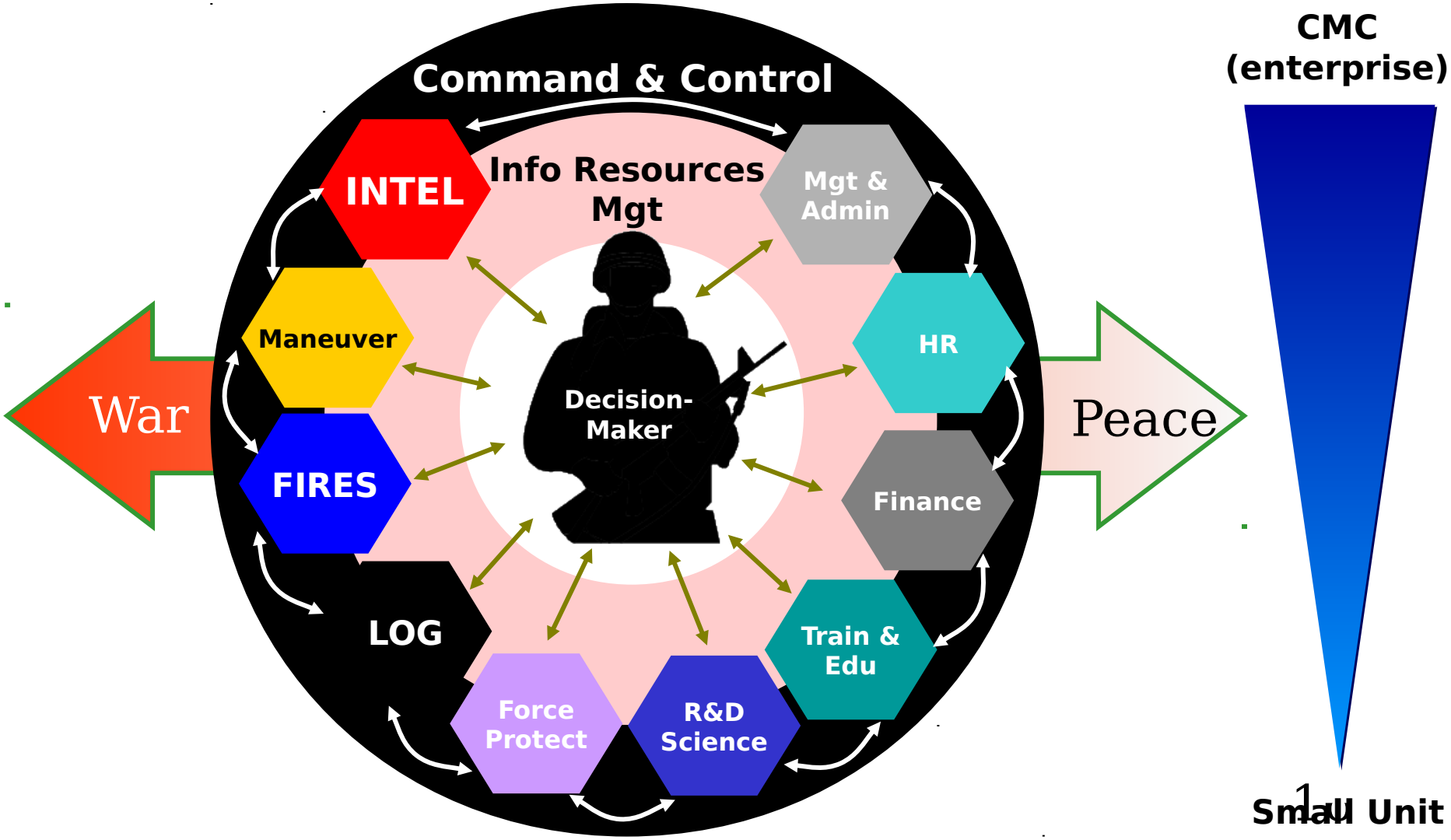
- Data Stores/Warehouses which allows Marine Corps Enterprise Data to be accessible from a single computer and viewed, analyzed, and understood in an integrated fashion



Why SDE?

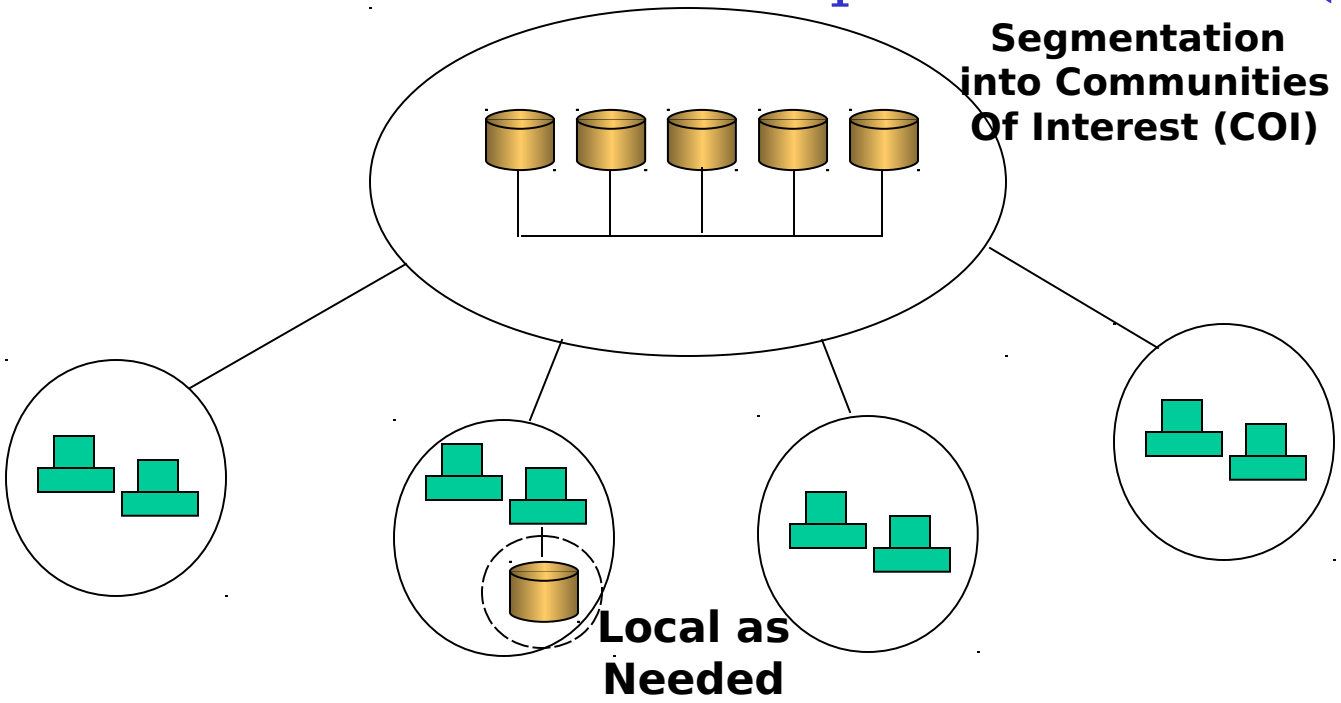
- Seamless, transparent exchange of information
- Increase awareness and quality of data assets
- Promote sharing of authoritative data source
- Establish foundation for Information/Knowledge management/decision support tools
- Integrated data provides new insights
- Reduce data costs through consolidation
- Reduce the "Time to Market" for application development and fielding
- Enhance Flexible Information Fusion

A Commander's Perspective

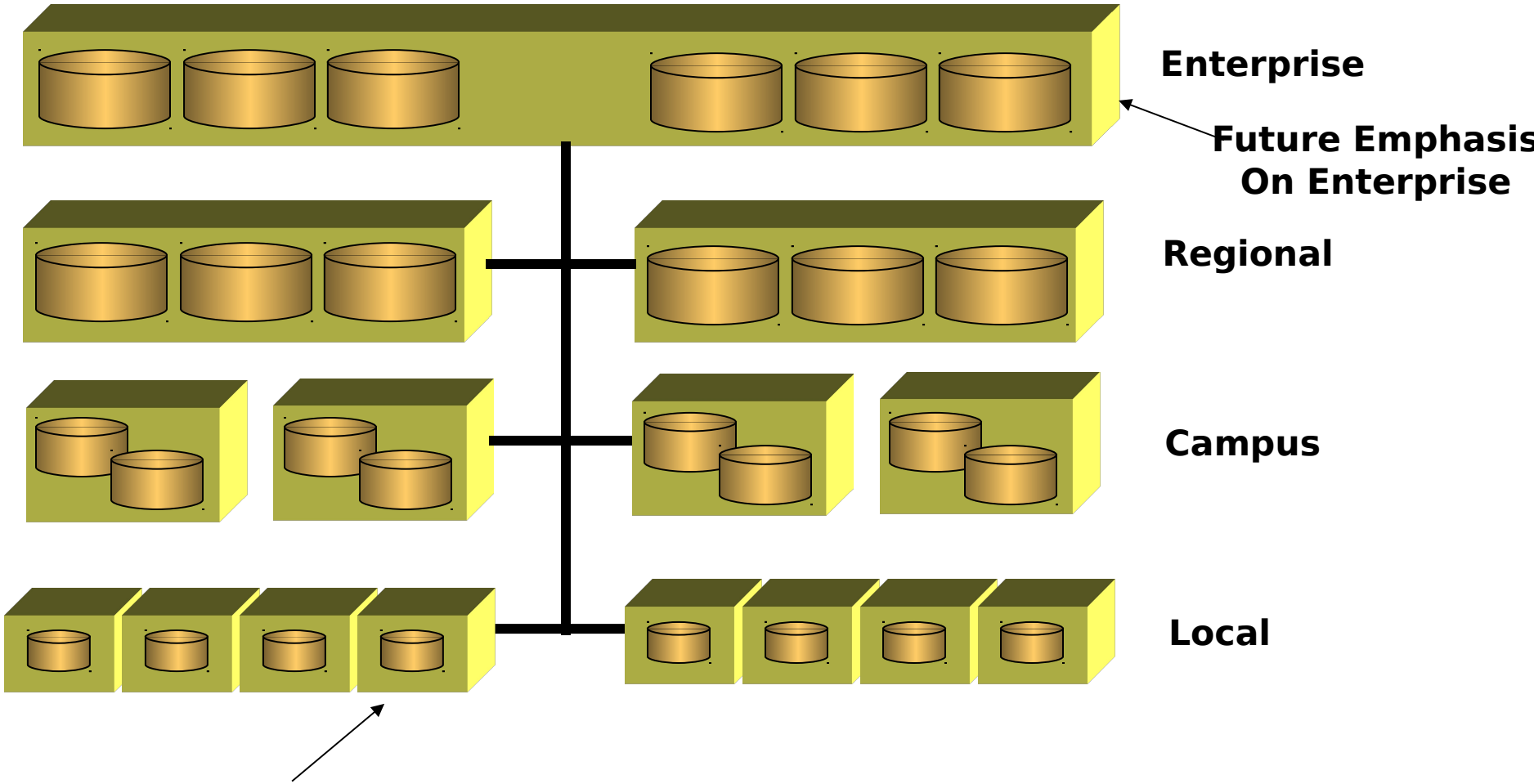


Conceptual Environment

- Net Centric Conceptual Model Leading to IT/DB Consolidation and Information Exposure (*Integrated)*
- Consistent with GIG Enterprise Services (GES), Horizontal Fusion Enterprise Services (HFES)



Consolidation/Rationalization



Legacy Applications

- Software application inventory
  - CIO/Systems Command Lead
  - 8000 reduced to 500
  - Certification process
  - Software Baseline
- Functional Area Managers (FAMS)
  - Sponsorship/accountability
- Enterprise Application Portfolio Management
  - Rationalize applications
  - Institutionalize process

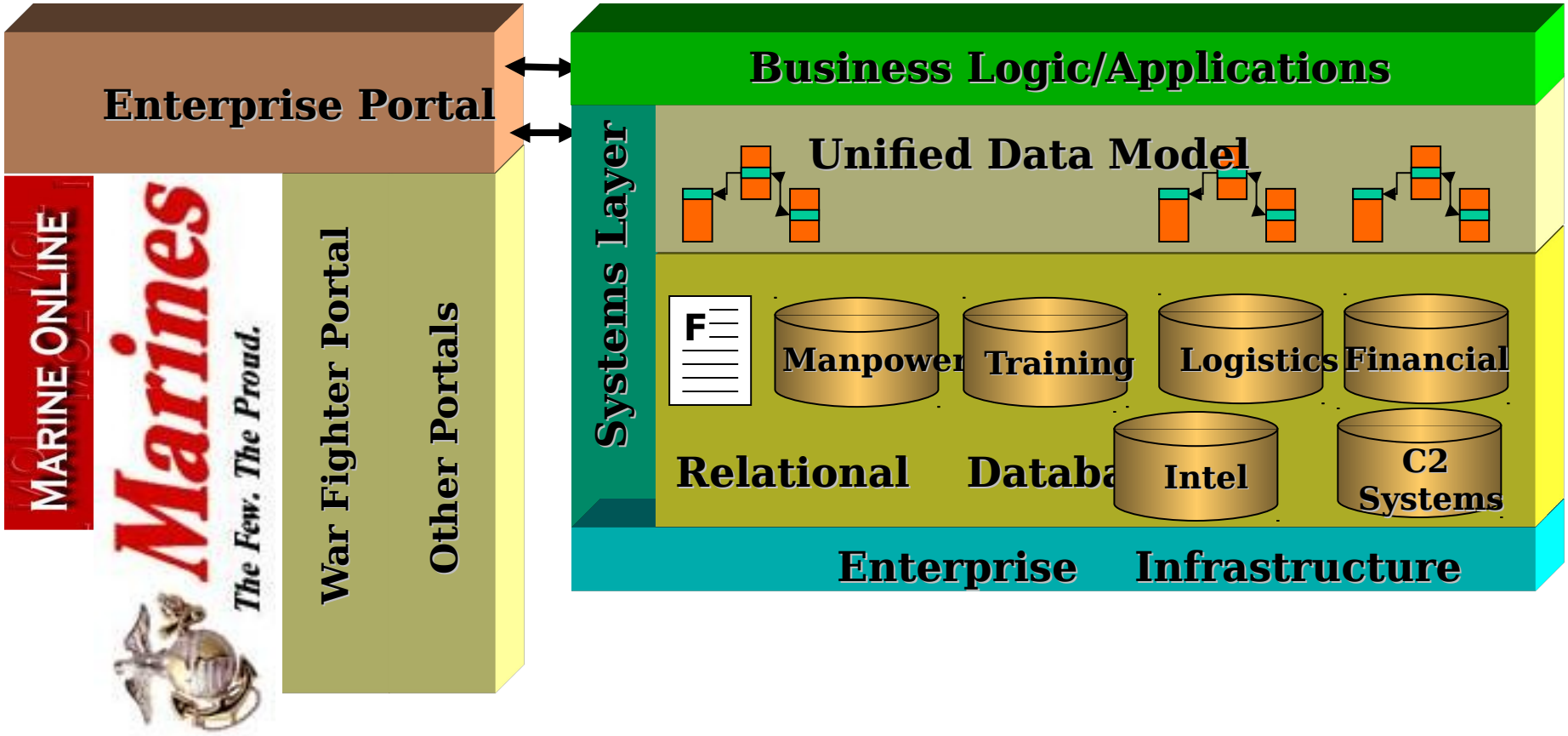
USMC Enterprise Portal

- *Single access point to enterprise information*
- *Aggregation of IT services*
- Portal Objectives:
  - Standardization
  - Interoperability
  - Consistency
  - Usability
  - Information quality
  - Lower total cost of ownership
  - Extensibility

Current Portal Tasks

- **CMC/HQMC Portal**
  - Assess options to develop, operate, & maintain portal for HQMC meeting CMC requirements for information aggregation, application integration, and workflow enhancement
- **Enterprise Portal Architecture & Policy**
  - Assuming no enforceable single-vendor Portal Engine standard, defining physical & logical options for integration framework meeting USMC objectives and aligned with DON/DOD policy

Envisioned USMC Enterprise



Summary

NMCI provides…

- Significant improvement to IT infrastructure
  - Connectivity, bandwidth/throughput, security
- Opportunity to improve business effectiveness & gain efficiencies
  - Improved Enterprise Governance Structure
  - Common IT Services
  - Shared Data Environment
  - Legacy Applications/Application Portfolio Mgmt
  - Enterprise Portal Framework

Back Up